

Title (en)
SYSTEM AND METHOD FOR OFF-LINE UPS

Title (de)
SYSTEM UND VERFAHREN FÜR OFFLINE-USV

Title (fr)
SYSTÈME ET PROCÉDÉ POUR UNE UPS HORS LIGNE

Publication
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Application
EP 12714449 A 20120328

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Abstract (en)
[origin: US2012248875A1] A method of operating an uninterruptible power supply (UPS) includes generating, during a portion of an output cycle, a substantially sinusoidal output voltage responsive to a plurality of pulse width modulation (PWM) control signals provided to a power conversion circuit of the UPS, comparing the output voltage to a reference root mean square (RMS) voltage at each of a plurality of time intervals during the portion of the output cycle, calculating a PWM control signal scaling factor based on each of the comparisons to the reference RMS voltage, and maintaining the output voltage at substantially the reference RMS voltage by applying the calculated PWM control signal scaling factor to at least one of the plurality of PWM control signals. The method may include detecting that the output voltage has reached a maximum output voltage level and clamping the output voltage to a steady state output voltage reference level.

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